THE PENDING CLAIMS

Please amend claim 20 as indicated below. The pending claims are believed to be as follows:

- 1. (Original) An orthopedic composition, comprising a homogeneous mixture of a biocompatible polymer and a bioactive particulate ceramic, said ceramic having an average particle size of not more than about 500 nm.
- 2. (Original) The composition of claim 1, wherein at least about 30% of said particulate ceramic has an average particle size of not more than about 100 nm.
- 3. (Original) The composition of claim 1, wherein said ceramic has an average particle size of about 100 nm.
- 4. (Original) The composition of claim 1, wherein said ceramic has an average particle size of about 1 nm to about 500 nm
- 5. (Original) The composition of claim 4, wherein said ceramic has an average particle size of about 1 nm to about 100 nm
- 6. (Original) The composition of claim 5, wherein said ceramic has an average particle size of about 1 nm to about 50 nm.
- 7. (Original) The composition of claim 1, wherein said composition comprises about 1% to about 49% by volume of said ceramic and about 51% to about 99% by weight of said polymer.
- 8. (Original) The composition of claim 1, wherein said composition is comprised predominantly of said polymer.
- 9. (Original) The composition of claim 1, wherein said polymer is selected from a resorbable polymer and a non-resorbable polymer.

- 10. (Original) The composition of claim 1, wherein said polymer comprises polyetheretherketone, polyethylene, polymethylmethacrylate, poly(L-lactide), poly(D,L-lactide), poly(L-co-D,L-lactide), polyglycolide, poly(lactide-co-glycolide), poly(hydroxylbutyrate), poly(hydroxyvalerate), tyrosine-derived polycarbonate and combinations thereof.
- 11. (Original) The composition of claim 1, wherein said particulate ceramic is selected from bioactive glass and a calcium-containing ceramic.
- 12. (Original) The composition of claim 11, wherein said calcium-containing ceramic is a calcium phosphate-containing ceramic.
- 13. (Original) The composition of claim 12, wherein said calcium phosphate-containing ceramic is comprised of hydroxyapatite.
- 14. (Original) The composition of claim 1, wherein said homogeneous mixture is obtained by processing the ceramic, the polymer or a combination thereof, with carrier solvents.
 - 15. (Original) A shaped, article formed from the composition of claim 1.
- 16. (Original) The article of claim 15, wherein said shaped article is a load bearing member.
- 17. (Original) The article of claim 16, wherein said member is an intervertebral disc implant.
- 18. (Original) The article of claim 16, wherein said article is shaped to form a structure selected from the group consisting of bone plates, bone screws and a load bearing intervertebral disc implant.
 - 19. (Original) A bone cement formed from the composition of claim 1.

- 20. (Currently amended) An orthopedic composition, comprising <u>particles of</u> a bioactive particulate ceramic <u>homogeneously</u> embedded in a biocompatible polymer matrix, said ceramic <u>particles</u> having an average particle size of not more than about 500 nm.
- 21. (Original) The composition of claim 20, wherein said polymer is selected from the group consisting of a resorbable polymer, a non-resorbable polymer and a combination thereof.
- 22. (Original) The composition of claim 20, wherein said particulate ceramic is selected from the group consisting of bioactive glass and a calcium-containing ceramic.
- 23. (Original) The composition of claim 22, wherein said calcium-containing ceramic is comprised of hydroxyapatite.
- 24. (Original) The composition of claim 22, wherein said calcium-containing ceramic is comprised of a mixture of hydroxyapatite and β-tricalcium phosphate.
- 25. (Original) A method for stabilizing a spine, comprising associating with vertebrae of said spine a shaped, load bearing article formed from a composition comprising a homogeneous mixture of a biocompatible polymer and a bioactive particulate ceramic, said ceramic having an average particle size of not more than about 500 nm.
- 26. (Original) The method of claim 25, wherein said composition comprises about 1% to about 49% by volume of said ceramic and about 51% to about 99% by volume of said polymer.
- 27. (Original) The method of claim 25, wherein said composition is comprised predominantly of said polymer.

- 28. (Original) The method of claim 25, wherein said polymer comprises polyetheretherketone, polyethylene, polymethylmethacrylate, poly(L-lactide), poly(D,L-lactide), poly(L-co-D,L-lactide), polyglycolide, poly(lactide-co-glycolide), poly(hydroxylbutyrate), poly(hydroxyvalerate), tyrosine-derived polycarbonate and combinations thereof.
- 29. (Original) A method of correcting a bone defect, comprising applying to said defect a composition comprising a homogeneous mixture of a biocompatible reinforcing polymer and a bioactive particulate ceramic, said ceramic having an average particle size of not more than about 500 nm.
- 30. (Original) The method of claim 29, wherein said composition comprises about 1% to about 49% by volume of said ceramic and about 51% to about 99% by volume of said polymer.
- 31. (Original) The method of claim 29, wherein said composition is comprised predominantly of said polymer.
- 32. (Original) The method of claim 29, wherein said polymer comprises polyetheretherketone, polyethylene, polymethylmethacrylate, poly(L-lactide), poly(D,L-lactide), poly(L-co-D,L-lactide), polyglycolide, poly(lactide-co-glycolide), poly(hydroxylbutyrate), poly(hydroxyvalerate), tyrosine-derived polycarbonate and combinations thereof.